

**PAT-NO:** JP357046026A  
**DOCUMENT-  
IDENTIFIER:** JP 57046026 A  
**TITLE:** MOTORCYCLE EMPLOYING MULTICYLINDER ENGINE WITH  
SUPERCHARGER  
**PUBN-DATE:** March 16, 1982

**INVENTOR-INFORMATION:**

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**APPL-NO:** JP55121598**APPL-DATE:** September 2, 1980**INT-CL (IPC):** F02B037/00 , B62M007/00 , F02B061/02 , F02B067/00**ABSTRACT:**

**PURPOSE:** To reduce the heat load on compressors and turbines of a supercharger attached to a multicylinder engine, by providing two turbines and two compressors which are driven by the exhaust energy of the engine.

**CONSTITUTION:** A turbosupercharger S is placed in front of the body 1 of an engine E. Two turbines T1, T2 are provided in the central part of the super-charger S. Two compressors C1, C2 are provided in the right and left parts of the supercharger. Exhaust gas from the engine E flows into the turbines T1, T2 through branched exhaust passages 19 and exhaust passages 18u and flows out through downstream passages 18d and mufflers M. Clean air from an air cleaner A is pressurized by the compressors C1, C2 and then enters into a pre-chambers 11. After the flow rate of the air is regulated by branched intake passages 12, the air is supplied into the engine E. According to this constitution, the heat load on the compressors C1, C2 and the turbines T1, T2 is reduced, the charging efficiency is kept from falling and appliances are prevented from being influenced by heat.

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